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(54) GRADUALLY RELEASABLE MICROORGANISM-CONTROLLING AGENT

(57)Abstract:

PURPOSE: To give an agent controlling microorganisms (an antibacterial or antifungal agent) gradually releasable properties.

CONSTITUTION: Liquid drops of an aqueous solution or emulsion of the microbial controller are covered with hydrophobic and ultrafine particles of silica oxide powder with an average primary particle size of 0.007-0.05 μ m (prepared by making a gas-phase colloidal silica hydrophobic with an agent). The atomization of the aqueous solution or emulsion and the coating of the atomized particles with the ultrafine silica particles are carried out by forcibly stirring the silica particles into the fluidized state and injecting the aqueous solution or emulsion into the fluidized silica. Since the coated layer of hydrophobic ultrafine silica particles has the action to screen the ultraviolet rays, the microbial controller can continue to maintain its activity for a long period of time without early decomposition, even when it has some anxiety in resistance to UV rays.

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